SEPARATING MIXTURES

Welcome, young scientists! Today, we're going to learn about different ways to separate mixtures. A mixture is when two or more things are combined, but they are not changed into something new. Let's explore how we can separate mixtures using different methods!

Matching Game

Draw a line to match each mixture with the correct method of separation.

Mixtures:	Separation Methods:
A. Sand and water	Magnetic separation
B. Salt and water	Evaporation
C. Iron filings and sand	Sieving
D. Pasta of different shapes	Filtration

True or False

Read each statement and circle whether it is true or false.

We can use filtration to separate sand from water. (True / False)
Evaporation can be used to separate oil from water. (True / False)
A magnet can separate iron filings from sand. (True / False)
Sieving can separate large and small pieces of gravel. (True / False)

Fill in the Blanks

Use the words in the box to fill in the blanks.

To separate _____ from water, we can use a _____.

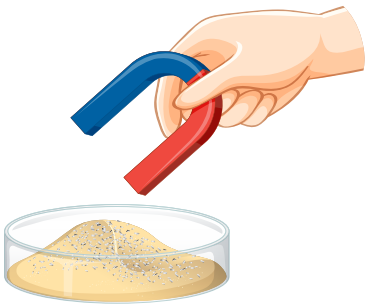
To separate salt from water, we can _____ the water.

To separate iron filings from sand, we can use a _____.

To separate different shapes of pasta, we can use a _____.

Word List

magnet
filter
boil
sieve
sand
water



Creative Challenge

Draw a picture of one method you learned about today.
Label the parts and write a sentence about how it works.

SEPARATING MIXTURES EXPERIMENT

In this experiment, we will investigate one simple method of filtering water.

Materials:

A small container of sand and water mixture
A coffee filter or paper towel
A cup

Instructions:

Pour the sand and water mixture into the cup.
Place the coffee filter over another empty cup.
Slowly pour the mixture through the coffee filter.
Observe what happens.

Questions:

What happened to the sand? _____

What happened to the water? _____

Why do you think this method worked? _____